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USPT,PGPB,JPAB,EPAB,DWPI,TDBD	5634121.uref.	6	<a href="#">L14</a>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	5634121.pn.	3	<a href="#">L13</a>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	5564046.pn.	3	<a href="#">L12</a>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	5564046.uref.	5	<a href="#">L11</a>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	6026388.uref.	5	<a href="#">L10</a>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	6026388.pn.	2	<a href="#">L9</a>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	5835758.pn.	2	<a href="#">L8</a>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	5835758.uref.	4	<a href="#">L7</a>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	5819295.uref.	9	<a href="#">L6</a>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	5819295.pn.	2	<a href="#">L5</a>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l2 and folder or workfolder	49	<a href="#">L4</a>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l2 and folder	43	<a href="#">L3</a>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l1 and hierarchy	145	<a href="#">L2</a>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	placeholder and document	292	<a href="#">L1</a>



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L4: Entry 3 of 49

File: USPT

Feb 20, 2001

US-PAT-NO: 6191786

DOCUMENT-IDENTIFIER: US 6191786 B1

TITLE: Navigational file system

DATE-ISSUED: February 20, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eyzaguirre; Alan K.	Santa Cruz	CA	94052	N/A
Wishnie; Jeffrey L.	San Francisco	CA	94110	N/A
Quinto; Kai L.	San Francisco	CA	94110	N/A

APPL-NO: 8/ 845997

DATE FILED: April 25, 1997

INT-CL: [7] G06F 3/00, G06F 15/16

US-CL-ISSUED: 345/356; 345/357, 707/501, 709/203, 709/219

US-CL-CURRENT: 345/356; 345/357, 707/501, 709/203, 709/219

FIELD-OF-SEARCH: 707/501, 345/356, 345/357, 345/346, 709/203, 709/219

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

☐ Search Selected☐ Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5500929</u>	March 1996	Dickinson	345/356
<input type="checkbox"/>	<u>5546517</u>	August 1996	Marks et al.	707/501
<input type="checkbox"/>	<u>5625781</u>	April 1997	Cline et al.	395/335
<input type="checkbox"/>	<u>5644736</u>	July 1997	Healy et al.	345/341
<input type="checkbox"/>	<u>5694594</u>	December 1997	Chang	707/6
<input type="checkbox"/>	<u>5708825</u>	January 1998	Sotomayor	707/501
<input type="checkbox"/>	<u>5724595</u>	March 1998	Gentner	707/501
<input type="checkbox"/>	<u>5793966</u>	August 1998	Amstein et al.	709/203
<input type="checkbox"/>	<u>5801702</u>	September 1998	Dolan et al.	345/357

ART-UNIT: 273

PRIMARY-EXAMINER: Bayerl; Raymond J.

ASSISTANT-EXAMINER: Thai; Cuong T.

ATTY-AGENT-FIRM: Fish &amp; Richardson P.C.

## ABSTRACT:

A method and apparatus for specifying the hierarchy of pages in a web site. The apparatus may include a graphical user interface providing a window including a display space for displaying a navigational structure for the web site on an output device. The tool includes an import tool for selecting a page to be displayed in the web site from a file structure, a placement tool for placing the page into the navigational structure and a

structure routine for assigning a navigational relationship to a page relative to other pages in the web site as each is placed in the navigational structure. The navigational structure may be displayed in a tree format or an organizational chart format. The apparatus may be a computer program containing instructions for causing a computer to select a plurality of files for inclusion in a web site where the files are stored in a physical file structure, assign a navigational relationship between the files and represent the navigational relationship between files in a navigational structure for display to a user on an output device. The apparatus may include a memory for storing a plurality of files and a file structure. The file structure may include a plurality of hierarchical levels with at least one file per hierarchical level. The file structure defines a navigational relationship between the plurality of files where the files are the only structural elements in the file structure.

9 Claims, 11 Drawing figures

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L35: Entry 40 of 43

File: USPT

Dec 23, 1997

US-PAT-NO: 5701137

DOCUMENT-IDENTIFIER: US 5701137 A

TITLE: Method for separating a hierarchical tree control into one or more hierarchical child tree controls in a graphical user interface

DATE-ISSUED: December 23, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kiernan; Casey L.	Redmond	WA	N/A	N/A
Jancke; Gavin	Redmond	WA	N/A	N/A

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Microsoft Corporation	Redmond	WA	N/A	N/A	02

APPL-NO: 8/ 448830

DATE FILED: May 24, 1995

INT-CL: [6] G06F 3/00

US-CL-ISSUED: 345/119; 395/356, 395/357

US-CL-CURRENT: 345/340; 345/356, 345/357

FIELD-OF-SEARCH: 345/119, 395/155, 395/160, 395/161, 395/157, 395/600, 395/356, 395/357, 434/118, 364/229.4, 364/966.2

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

☐ **Search Selected**☐ **Search ALL**

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4613946</u>	September 1986	Forman	364/518
<input type="checkbox"/>	<u>5065347</u>	November 1991	Pajak et al.	395/160 X
<input type="checkbox"/>	<u>5262761</u>	November 1993	Scandura et al.	395/160 X
<input type="checkbox"/>	<u>5412776</u>	May 1995	Bloomfield et al.	395/160
<input type="checkbox"/>	<u>5428554</u>	June 1995	Laskoski	395/160 X
<input type="checkbox"/>	<u>5491795</u>	February 1996	Beaudet et al.	395/160 X
<input type="checkbox"/>	<u>5504853</u>	April 1996	Schuur et al.	395/160
<input type="checkbox"/>	<u>5515487</u>	May 1996	Beaudet et al.	395/160 X
<input type="checkbox"/>	<u>5559945</u>	September 1996	Beaudet et al.	395/160 X

## OTHER PUBLICATIONS

Windows.RTM. 95 Software Development Kit, "Multiple Document Interface," Chapter 27, pp. 43-70.

"Chapter 3: A Guided Tour of Microsoft Windows, pp. 31-36; Chapter 7: File Manager", pp. 105-117, Microsoft Windows User's Guide, Operating System Version 3.1, 1993.

ART-UNIT: 245

PRIMARY-EXAMINER: Bayerl; Raymond J.

ASSISTANT-EXAMINER: Vail; Seth D.

ATTY-AGENT-FIRM: Klarquist Sparkman Campbell Leigh & Whinston, LLP

ABSTRACT:

A method for interactive display of a graphical tree structure in a windowing environment. A tree control graphically represents hierarchical data. The user can separate a portion of a tree control at a node and create a new tree control for viewing and editing. Changes to a newly created tree control propagate through to related tree controls.

24 Claims, 12 Drawing figures

**WEST**☐ Generate Collection

L38: Entry 5 of 49

File: USPT

Nov 14, 2000

US-PAT-NO: 6148311

DOCUMENT-IDENTIFIER: US 6148311 A

TITLE: Web site construction by inferring navigational structure from physical file structure

DATE-ISSUED: November 14, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wishnie; Jeffrey L.	San Francisco	CA	N/A	N/A
Eyzaguirre; Alan K.	Santa Cruz	CA	N/A	N/A
Quinto; Kai L.	San Francisco	CA	N/A	N/A

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Adobe Systems Incorporation	San Jose	CA	N/A	N/A	02

APPL-NO: 8/ 845730

DATE FILED: April 25, 1997

INT-CL: [7] G06F 17/21

US-CL-ISSUED: 707/513; 707/104, 345/356, 706/45

US-CL-CURRENT: 707/513; 345/356, 706/45, 707/104

FIELD-OF-SEARCH: 345/356, 345/357, 345/440, 709/217-219, 706/45-47, 707/500, 707/501, 707/513-514, 707/104

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5546517</u>	August 1996	Marks et al.	395/145
<input type="checkbox"/>	<u>5625781</u>	April 1997	Cline et al.	395/335
<input type="checkbox"/>	<u>5634062</u>	May 1997	Shimizu et al.	395/762
<input type="checkbox"/>	<u>5701137</u>	December 1997	Kiernan et al.	345/119
<input type="checkbox"/>	<u>5727129</u>	March 1998	Barrett et al.	395/12
<input type="checkbox"/>	<u>5793966</u>	August 1998	Amstein et al.	709/218
<input type="checkbox"/>	<u>5801702</u>	September 1998	Dolan et al.	345/357
<input type="checkbox"/>	<u>5845290</u>	December 1998	Yoshii	707/104
<input type="checkbox"/>	<u>5890170</u>	March 1999	Sidana	707/501
<input type="checkbox"/>	<u>5903902</u>	May 1999	Orr et al.	707/517
<input type="checkbox"/>	<u>5911145</u>	June 1999	Arora et al.	707/514

## OTHER PUBLICATIONS



Jones, J.L., Nif-T-Nav: Hierarchical Navigator for WWW Pages, Fifth International World Wide Web Conference, May 6-10, 1996, Paris, France [online], [retrieved Aug. 16, 1999].  
Retrieved from Internet: .

ART-UNIT: 276

PRIMARY-EXAMINER: Feild; Joseph H.

ATTY-AGENT-FIRM: Fish & Richardson, PC

ABSTRACT:

A method and apparatus for inferring navigational hierarchy for a web site from an existing file hierarchy having one or more HTML files. The method includes inferring a navigational hierarchy for a web site from physical relationships between the HTML files stored in the existing file hierarchy. The method may include ordering the HTML files according to the navigational hierarchy for manipulation by a web site construction tool and displaying the ordered HTML files in a tree structure or an organizational chart structure indicative of the navigational hierarchy for the web site. The existing file hierarchy may include a directory and one or more sub-directories each including one or more HTML files. The method may include creating an initial level in the navigational hierarchy for all HTML files in the directory. Each file in the initial level includes a link to a next sequential file physically located in the file hierarchy that is assigned to the initial level of the navigational hierarchy. The method may include creating a second level in the navigational hierarchy for HTML files in a sub-directory of the directory.

20 Claims, 11 Drawing figures

**WEST**

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L4: Entry 36 of 49

File: USPT

Apr 6, 1999

US-PAT-NO: 5893087

DOCUMENT-IDENTIFIER: US 5893087 A

TITLE: Method and apparatus for improved information storage and retrieval system

DATE-ISSUED: April 6, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wlaschin; Scott	Los Angeles	CA	N/A	N/A
Gordon; Robert	Los Angeles	CA	N/A	N/A
Wannier; Louise J.	La Canada	CA	N/A	N/A
Gordon; Clay	New York	NY	N/A	N/A

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Dex Information Systems, Inc.	Pasadena	CA	N/A	N/A	02

APPL-NO: 8/ 633842

DATE FILED: April 10, 1996

## PARENT-CASE:

RELATED APPLICATIONS The present application is a Continuation-In-Part of the copending application entitled "Method and Apparatus for Improved Information, Storage and Retrieval Sytem" filed Feb. 3, 1995, Ser. No. 08/383,752 now U.S. Pat. No. 5,729,730, which is herein incorporated by reference.

INT-CL: [6] G06F 17/30

US-CL-ISSUED: 707/3; 707/1, 707/4, 707/102

US-CL-CURRENT: 707/3; 707/1, 707/102, 707/4

FIELD-OF-SEARCH: 707/1, 707/3, 707/4, 707/102

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5295256</u>	March 1994	Bapat	395/500
<input type="checkbox"/>	<u>5305389</u>	April 1994	Palmer	382/1
<input type="checkbox"/>	<u>5359724</u>	October 1994	Earle	395/425
<input type="checkbox"/>	<u>5375237</u>	December 1994	Tanaka et al.	395/650
<input type="checkbox"/>	<u>5421012</u>	May 1995	Khoyi et al.	395/650
<input type="checkbox"/>	<u>5459860</u>	October 1995	Burnett et al.	707/1
<input type="checkbox"/>	<u>5499180</u>	March 1996	Ammirato et al.	364/419.1
<input type="checkbox"/>	<u>5537591</u>	July 1996	Oka	707/4
<input type="checkbox"/>	<u>5537633</u>	July 1996	Suzuki et al.	707/3
<input type="checkbox"/>	<u>5553218</u>	September 1996	Li et al.	395/148
<input type="checkbox"/>	<u>5557787</u>	September 1996	Shin et al.	707/1
<input type="checkbox"/>	<u>5560005</u>	September 1996	Hoover et al.	707/3
<input type="checkbox"/>	<u>5564046</u>	October 1996	Nemoto et al.	707/4
<input type="checkbox"/>	<u>5729730</u>	March 1998	Wlaschin et al.	707/3

ART-UNIT: 271

PRIMARY-EXAMINER: Black; Thomas G.

ASSISTANT-EXAMINER: Coby; Frantz

ATTY-AGENT-FIRM: Irell &amp; Manella LLP

## ABSTRACT:

The information management and database system of the present invention comprises a flexible, self-referential table that stores data. The table of the present invention may store any type of data, both structured and unstructured, and provides an interface to other application programs. The table of the present invention comprises a plurality of rows and columns. Each row has an object identification number (OID) and each column also has an OID. A row corresponds to a record and a column corresponds to a field such that the intersection of a row and a column comprises a cell that may contain data for a particular record related to a particular field, a cell may also point to another record. To enhance searching and to provide for synchronization between columns, columns are entered as rows in the table and the record corresponding to a column contains various information about the column. The table includes an index structure for extended queries.

81 Claims, 29 Drawing figures

**WEST**

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L4: Entry 40 of 49

File: USPT

Sep 22, 1998

US-PAT-NO: 5812394

DOCUMENT-IDENTIFIER: US 5812394 A

TITLE: Object-oriented computer program, system, and method for developing control schemes for facilities

DATE-ISSUED: September 22, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lewis; Robert W.	Dana Point	CA	N/A	N/A
Tanner; Matthew A.	Irvine	CA	N/A	N/A
Walker; Timothy K.	Overland Park	KS	N/A	N/A

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Control Systems International	Fairway	KS	N/A	N/A	02

APPL-NO: 8/ 505704

DATE FILED: July 21, 1995

INT-CL: [6] G05B 11/01

US-CL-ISSUED: 364/146; 364/188, 364/189, 364/191, 364/140

US-CL-CURRENT: 700/17; 345/326, 700/83, 700/84, 700/86

FIELD-OF-SEARCH: 364/188, 364/189, 364/146, 364/191, 364/140, 364/130, 364/300, 364/400, 364/513, 395/155, 395/500, 395/700, 395/159, 395/326, 395/561

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

	PAT-NO	ISSUE DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4628435</u>	December 1986	Tashiro et al.	364/130
<input type="checkbox"/>	<u>4736320</u>	April 1988	Bristol	364/300
<input type="checkbox"/>	<u>4885717</u>	December 1989	Beck et al.	364/900
<input type="checkbox"/>	<u>4972328</u>	November 1990	Wu et al.	364/513
<input type="checkbox"/>	<u>5014208</u>	May 1991	Wolfson	364/468
<input type="checkbox"/>	<u>5051898</u>	September 1991	Wright et al.	364/200
<input type="checkbox"/>	<u>5485600</u>	January 1996	Joseph et al.	395/500
<input type="checkbox"/>	<u>5485620</u>	January 1996	Sadre et al.	395/700
<input type="checkbox"/>	<u>5509116</u>	April 1996	Hiraga et al.	395/155
<input type="checkbox"/>	<u>5530643</u>	June 1996	Hodorowski	364/191
<input type="checkbox"/>	<u>5546301</u>	August 1996	Agrawal et al.	364/140
<input type="checkbox"/>	<u>5555385</u>	September 1996	Selby et al.	395/159
<input type="checkbox"/>	<u>5576946</u>	November 1996	Bender et al.	364/146
<input type="checkbox"/>	<u>5594858</u>	January 1997	Blevins	395/326
<input type="checkbox"/>	<u>5603018</u>	February 1997	Terada et al.	395/561
<input type="checkbox"/>	<u>5611059</u>	March 1997	Benton et al.	395/326

## OTHER PUBLICATIONS

Bailey, "Introducing Bailey Evolution 90.TM. . . . The Sound Investment Strategy for Process Automation", 1993.  
 Bailey, "Wide-Range, Fully Compatible Family of Process Automation and Management Systems", 1993.  
 Computer Products, "Unbundling the DCS", approximately 1992.  
 Elsas Bailey, "Elsag Bailey Automation", approximately 1993.  
 Fisher-Rosemount, "Managing the Process Better", Sep. 1993.  
 Fisher-Rosemount, "Managing the Process Better", Dec. 1993.  
 Honeywell, "Process Manager Specification and Technical Data", Sep. 1991.  
 Honeywell, "TDC 3000 Overview", approximately 1992.  
 Honeywell, "TDC 3000 Process Manager", approximately 1992.  
 Honeywell, "UDC 6000 Process Controller", Aug. 1992.  
 Leeds and Northrup, "Make Your Automation Plan a Reality: MAX 1000", approximately 1990.  
 Toshiba, "Toshiba Integrated Control Systems", Nov. 1990.  
 Reliance Electric Company, "Multitasking Capability Simplifies Process Control Design", approximately late 1980s, by Angelo J. Notte.

ART-UNIT: 276

PRIMARY-EXAMINER: Elmore; Reba I.

ASSISTANT-EXAMINER: Patel; Ramesh

ATTY-AGENT-FIRM: Hovey, Williams, Timmons &amp; Collins

## ABSTRACT:

An object-oriented development system for developing control schemes for facilities includes a device diagramming component for describing a physical description of a facility and a logical definition of a control scheme for the facility. The device diagramming component includes a mode for selecting device symbols representative of equipment or control functions used in facilities. The device symbols are selected from an object-oriented repository containing a plurality of device symbols and device objects. Certain types of device symbols relate to device objects containing logical instructions and configuration information relating to the represented equipment or control functions. The device diagramming component also includes a mode for interrelating in a graphical manner the selected device symbols and their corresponding device objects into a device diagram representing the physical description of the facility and the logical definition of the control scheme for the facility. A device logic developing component defines the logical instructions of the device objects relating to the equipment or control functions. Thus, the development system integrates in a graphical format the physical description of the facility with the logical instructions which define the control scheme for the facility. These logical instructions

unify the configuration of analog/regulatory control with the configuration of discrete/sequential/interlocking control.

32 Claims, 77 Drawing figures